

**CLAIMS**

1. A content distribution system comprising a license management server, a relay server and a terminal device, wherein the license management server includes
  - 5 a first license generation unit operable to generate, in a first format, a first license for controlling content use in the terminal device,
  - the relay server includes
    - 10 a second license generation unit operable to generate, in a second format, a second license by adding, to the first license, modification detection information for detecting a modification of the first license, the second format being different from the first format,
    - the terminal device includes:
      - 15 a format conversion unit operable to obtain the second license from the relay server and convert a format of the second license into the first format;
      - a judgment unit operable to judge presence or absence of the modification of the first license whose format is converted by
      - 20 the format conversion unit; and
      - a use unit operable to use the content according to the first license in the case where the judgment unit judges that no modification is made.
- 25 2. The content distribution system according to Claim 1, wherein the license management server further includes a modification detection information generation unit operable to generate modification detection information for detecting the modification of the first license and further send the generated modification detection information to the relay server depending on a transmission path to the terminal device.

3. The content distribution system according to Claim 2, wherein, in the case where a frequency band of the transmission path is narrower than a predetermined frequency band or a communication speed of the transmission path is slower than a predetermined communication speed, the modification detection information generation unit sends the modification detection information to the relay server and instructs the relay server to generate the second license.
- 10 4. The content distribution system according to Claim 3, wherein the second license generation unit generates the second license whose data size is smaller than a data size of the first license generated in the first format.
- 15 5. The content distribution system according to Claim 2, wherein the license management server includes a first sending unit operable to send the first license to the terminal device,  
the relay server includes a second sending unit operable to send the second license to the terminal device via the transmission path different from the transmission path in the case of using the license management server, and  
the terminal device obtains the second license from the second sending unit.
- 25 6. The content distribution system according to Claim 5, wherein the license management server further includes a specification information receiving unit operable to receive an input of format specification information that is an instruction, to the terminal device, for converting the format of the second license into the first format,  
the second license generation unit generates a second

license including the format specification information received by the license management server, and

the format conversion unit converts the format of the second license into the first format according to the format specification information added to the second license.

7. The content distribution system according to Claim 6, wherein the modification detection information is a digital signature of the first license,

10 the license management server includes a signature generation unit operable to generate the digital signature, and the second license generation unit generates a second license including the digital signature.

15 8. The content distribution system according to Claim 1, further comprising a plurality of servers, one of which is the relay server according to Claim 1,

20 wherein each of the relay servers includes an "n"th license generation unit operable to generate an "n"th ("n" is a natural number that is 2 or greater) license, in an "n"th format, generated by adding, to the first license, modification detection information for detecting the modification of the first license, the "n"th format different from the first format, and

25 the format conversion unit obtains the "n"th license from one of the relay servers and converts the format of the "n"th license into the first format.

30 9. A license management server in a content distribution system comprising: the license management server; a relay server; and a terminal device,

wherein the license management server distributes a first license for controlling content use in a terminal device,

the relay server generates, in a second format, a second license by adding, to the first license, modification detection information for detecting a modification of the first license, the second format being different from a format used when the first 5 license is generated, and distributes the second license, and

the terminal device generates the first license by format transformation by obtaining the second license, detects presence or absence of the modification of the generated first license based on the modification detection information, and, in the case where 10 no modification is detected, uses the content according to the first license,

the license management server includes:

a first license generation unit operable to generate, in a first format, the first license; and

15 a modification detection information generation unit operable to generate modification detection information of the first license and send the generated modification detection information to the relay server.

20 10. The license management server according to Claim 9, wherein the modification detection information generation unit generates the modification detection information depending on a transmission path to the terminal device.

25 11. The license management server according to Claim 10, wherein, in the case where a frequency band of the transmission path is narrower than a predetermined frequency band or a communication speed of the transmission path is lower than a predetermined communication speed, the modification 30 detection information generation unit sends the modification detection information to the relay server and instructs the relay server to generate the second license.

12. The license management server according to Claim 11, wherein the relay server generates the second license whose data size is smaller than a data size of the first license generated in the first format.

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13. The license management server according to Claim 9, wherein the modification detection information generation unit generates a digital signature of the first license and sends the generated digital signature to the relay server.

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14. The license management server according to Claim 9, wherein the license management server further includes: a specification information receiving unit operable to receive an input of format specification information that is an instruction, to the terminal device, for converting the format of the second license into the first format; and a specification information sending unit operable to send received format specification information to the relay server.

20 15. A relay server in a content distribution system comprising: a license management server; the relay server; and a terminal device,

wherein the license management server distributes a first license for controlling content use in a terminal device,

25 the relay server generates, in a second format, a second license generated by adding, to the first license, modification detection information for detecting a modification of the first license, the second format being different from a format used when the first license is generated, and distributes the second license,

30 and

the terminal device generates the first license by format transformation by obtaining the second license, detects presence

or absence of the modification of the generated first license based on the modification detection information, and, in the case where no modification is detected, uses the content according to the first license,

5       the relay server includes:

      a second license generation unit operable to generate, in the second license, the second license by adding, to the first license, the modification detection information of the first license generated in the first format; and

10       a second sending unit operable to send the generated second license to the terminal device.

16.   The relay server according to Claim 15,

      wherein the second sending unit sends the second license to the terminal device via a transmission path different from the 15 license management server.

17.   The relay server according to Claim 15,

      wherein the modification detection information is a digital 20 signature of the first license, and

      the second license generation unit generates a second license including the digital signature received from the license management server.

25 18.   The relay server according to Claim 15,

      wherein the second license generation unit receives format specification information from the license management server, the format specification information being an instruction for making the terminal device convert the format of the second license into 30 the first format, and generates the second license including the format specification information.

19. A terminal device in a content distribution system comprising: a license management server; a relay server; and the terminal device,

wherein the license management server distributes a first

5 license for controlling content use in the terminal device,  
the relay server generates a second license generated, in a  
second format, by adding, to the first license, modification  
detection information for detecting a modification of the first  
license, the second format being different from a format used when  
10 the first license is generated, and distributes the second license,  
and

the terminal device uses the content according to the first  
license by obtaining the second license and generates the first  
license using format conversion,

15 the terminal device includes:  
a format conversion unit operable to obtain the second  
license generated in the second format from the relay server,  
converts a format of the obtained second license into a first format  
different from the second format, and generates the first license;  
20 a judging unit operable to judge presence or absence of the  
modification of the generated first license based on modification  
detection information added to the second license; and  
a use unit operable to use the content according to the first  
license in the case where the judgment unit judges that no  
25 modification is made.

20. The terminal device according to Claim 19,  
wherein the format conversion unit converts the format of  
the second license into the first format according to format  
30 specification information that is added to the second license and is  
an instruction for making the terminal device convert the format of  
the second license into the first format.

21. The terminal device according to Claim 19,  
wherein the modification detection information is a digital  
signature of the first license, and  
the judgment unit judges presence or absence of the  
modification of the first license based on the digital signature  
added to the second license.
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22. A license distribution method for use in a content  
distribution system including a license management server, a relay  
server and a terminal device, the method comprising:  
10 generating, in a first format, a first license for controlling  
content use in the terminal device, the generation being executed  
by the license management server;  
generating a second license in a second format different  
15 from the first format by adding, to the first license, modification  
detection information for detecting a modification of the first  
license, the generation being executed by the relay server;  
converting the format of the second license into the first  
format by obtaining the second license from the relay server, the  
format being executed by the terminal device;  
20 conversion being executed by the terminal device;  
judging presence or absence of the modification of the first  
license whose format is converted into the first format based on the  
modification detection information, the judgment being executed  
by the terminal device; and  
25 using the content according to the first license in the case  
where it is judged that no modification is made, the use being  
executed by the terminal device.
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23. Data with a structure including a header part and a data  
part,  
wherein the header part includes format identification  
information and a digital signature of the data, the format

identification information being for identifying an object format in the case of converting data described in the data part into an object format and the digital signature of the data being obtained when the format of a license is converted into a specific format 5 according to the format identification information.